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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/852,484	05/10/2001	David John Nevill	PH/5-30706A	5851	
26748 75	90 05/31/2002				
SYNGENTA CROP PROTECTION , INC. PATENT AND TRADEMARK DEPARTMENT 410 SWING ROAD			EXAMINER		
			CLARDY, S		
GREENSBORO, NC 27409		ART UNIT	PAPER NUMBER		
			1616	$\widehat{}$	
			DATE MAILED: 05/31/2002	X	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.

09/852,484

Applicant(s)

Nevill et al

Office Action Summary

Examiner

S. Mark Clardy

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	The MAILING DATE of this communication appears	on the cover sh	eet with	the correspondence address		
Period f	for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM						
	MAILING DATE OF THIS COMMUNICATION. ions of time may be available under the provisions of 37 CFR 1.136 (a). In (no event. however, n	nav a reply b	e timely filed after SIX (6) MONTHS from the		
mailing	date of this communication.					
- If NO p	period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a	nd will expire SIX (6)	MONTHS fr	rom the mailing date of this communication.		
- Failure - Anv re	to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the	ne application to become his communication, e	me ABANDO ven if timely	NED (35 U.S.C. § 133). filed, may reduce any		
earned	patent term adjustment. See 37 CFR 1.704(b).					
Status	December 4. Annual continue (a) filed on May 7, 20	102				
1) 💢	Responsive to communication(s) filed on <u>Mar 7, 20</u>			•		
2a) 💢	This action is FINAL . 2b) \square This action					
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposi	tion of Claims					
4) 💢	Claim(s) <u>1-20</u>			is/are pending in the application.		
4	la) Of the above, claim(s)			is/are withdrawn from consideration.		
5) 🗆 -	Claim(s)			is/are allowed.		
6) 💢	Claim(s) 1-20			is/are rejected.		
7) 🗆	Claim(s)			is/are objected to.		
8) 🗆	Claims	are	subject	to restriction and/or election requirement.		
Applica	tion Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	a) accepte	ed or b)[\square objected to by the Examiner.		
·	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	The proposed drawing correction filed on					
	If approved, corrected drawings are required in reply to this Office action.					
12)	12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120						
13)💢	Acknowledgement is made of a claim for foreign pr	riority under 3	5 U.S.C.	§ 119(a)-(d) or (f).		
a) 🕽	a) ☑ All b) ☐ Some* c) ☐ None of:					
	1. X Certified copies of the priority documents have been received.					
	2. \square Certified copies of the priority documents hav	e been receive	d in App	olication No		
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
*S	ee the attached detailed Office action for a list of the	e certified copi	ies not re	eceived.		
14)	Acknowledgement is made of a claim for domestic	priority under	35 U.S.	C. § 119(e).		
a) The translation of the foreign language provisional application has been received.						
15) 🗆	Acknowledgement is made of a claim for domestic	priority under	35 U.S.	C. §§ 120 and/or 121.		
Attachm	ent(s)					
	otice of References Cited (PTO-892)			0-413) Paper No(s)		
_	otice of Draftsperson's Patent Drawing Review (PTO-948)		ormal Patent	t Application (PTO-152)		
3) Inf	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) U Other:				

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Claims 1-20 are pending in this application which has been filed as a continuation of PCT/EP99/08559, filed November 8, 1999. Claims 1 and 10 have been amended

Applicants' claims are drawn to a synergistic composition for the selective control of broadleaf weeds and grasses in crops which are resistant to protoporphyrinogen oxidase (PPO) inhibitors comprising (claim 1):

- a) a PPO inhibiting herbicide¹
- b) at least one additional pesticide (herbicide², fungicide, insecticide)
- c) optionally, a safener³.

Pages 10-326 are merely a generated list of permutations of herbicide combinations. No data is evident in the specification.

The rejection of claim 10 under 35 U.S.C. 112, second paragraph, is withdrawn in response to applicants' amendment.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

¹Claims 3-6: diphenyl ethers: acifluorphen, aclonifen, bifenox, chlornitrophen, ethoxyfen, fluroglycofen, formesafen, lactofen, oxyflurfen;

imides: azafenidin, carfentrazon, cinidon, flumiclorac, flumioxazin, fluthiacet, oxadiargyl, oxadiazon, pentoxazone, slufentrazone, flumipropyn, flupropacil, benzfendizone, formula A (claim 5);

phenylpyrazoles: nipyraclofen, pyraflufen; fluazolate, thidiazimin.

²Claims 8, 9, 11-20 list virtually every known herbicidal agent.

³Claim 10: benzoxazin (benoxacor), MON 4660, flurazole, dichlormid, furilazole.

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are again rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al (US 6,127,318) further in view of Volrath et al (US 6,084,155) and Devine et al⁴.

Sato et al, again, teach the combination of glyphosate and a PPO inhibiting herbicide such as the triazolinones (col 2, lines 11-12), two of which are carfentrazone and sulfentrazone (col 3, lines 56-67).

Volrath et al, again, teach that applicants' PPO inhibiting herbicides were known (col 37-44).

Devine et al, again, teach that there were several known antagonists (safeners) of the PPO inhibiting nitrodiphenylether herbicides (Table 8.4, p. 157).

Again, one of ordinary skill in the art would be motivated to combine these references because Sato teaches the utility of PPO inhibiting herbicides which are further defined and characterized in the secondary references.

Thus, again, it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to have combined PPO inhibiting herbicides with additional pesticidal agents, and safeners, because Sato teaches that glyphosate is useful in such a combination. One of ordinary skill in the art would expect that PPO inhibiting herbicides, with their known utility in treating weeds in PPO-herbicide resistant crops, could be combined with additional herbicides and

⁴Devine et al. *Physiology of Herbicide Action*. Section 8.4 "Inhibitors of protoporphyrinogen-oxidase". PTR Prentice Hall: NJ. P. 152-163. 1993.

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conventional additives.⁵ Further, it is conventional in the art to make use of safeners for herbicides, several of which are disclosed in Devine et al.

The declaration filed with the amendment presents data which shows unexpected herbicidal activity for one PPO inhibiting herbicide (Compound A, as in claim 5), in combination with other herbicides: metolachlor, atrazine, nicosulfuron, mesotrione, metolachlor + atrazine, and metolachlor + mesotrione. Thus a claim drawn to the composition of claim 1 which is limited to this PPO inhibiting herbicide would be allowable.

Note, however, that objective evidence of nonobviousness must be commensurate in scope with the scope of the claims. In re Tiffin, 171 USPQ 294. A showing limited to a single species can hardly be considered probative of the invention's nonobviousness in view of the breadth of the claims. In order for claim 1 to be found allowable, a representative sample of PPO inhibiting herbicides (i.e., not just Compound A) must be tested in combination with other herbicides.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103c and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the

⁵It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose in order to form a third composition that is to be used for the very same purpose; the idea of combining them flows logically from their having been individually taught in the prior art. In re Kerkhoven, 205 USPQ 1069.

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mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Mark Clardy whose telephone number is (703) 308-4550.

S. Mark Clardy Primary Examiner

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May 30, 2002